

High catalytic activity of palladium nanoparticle clusters supported on a spherical polymer network

Sultanova E., Salnikov V., Mukhitova R., Zuev Y., Osin Y., Zakharova L., Ziganshina A., Konovalov A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© The Royal Society of Chemistry 2015. In this communication we report the synthesis of Pd nanoparticle clusters achieved via the assembly of Pd nanoparticles on the surface of a spherical polymer network. The network exhibits flexibility and adapts to the cluster formation. The nanoclusters display high catalytic activity toward p-nitrophenol reduction and the Suzuki-Miyaura coupling reaction.

<http://dx.doi.org/10.1039/c5cc04686f>
